

# E.Coli test


Bacteriological test for E.Coli (Fecal coliform bacteria) using Pota Test kit

① Preparation



Recharge Pb battery connecting outlet.

② Preparation



Prepare Alcohol, cotton.

③ On-site



On-site, firstly sterilize forceps, petridish using ignited alcohol.

④



Sterilize all filtering tools, sampling cup using ignited alcohol.

⑤



After sterilization, cool down the filtering tools and sampling cup.

⑥




Take sample using sterilized sampling cup.

⑦



Connect dispenser and sterilized pad box for medium culture (bacteria food).

⑧




Pull the lever to serve sterilized pad on sterilized petridish.

⑨




Prepare medium culture (bacteria food). After open, immediately close.

⑩



Add medium culture on pad, almost 2mL.

⑪



Spread medium culture whole pad area. Do not touch the pad using bare hands.

⑫







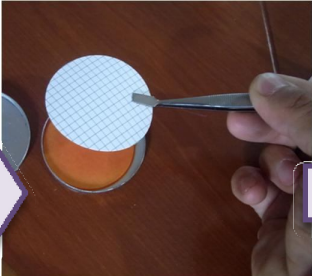



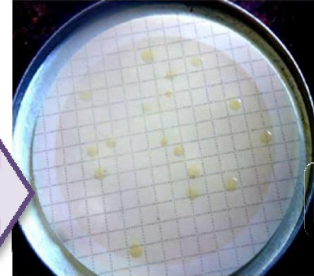


After adding medium culture, immediately close the cover.

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<p>⑬</p>  <p>Prepare membrane filter(0.45µm), open the firm cover, and take filter using sterilized forceps.</p>	<p>⑭</p>  <p>Put in constructed filtering tool.</p>	<p>⑮</p>  <p>Set funnel on filtering tool.</p>	<p>⑯</p>  <p>Add 100 mL sample water until upper line on funnel.</p>	<p>⑰</p>  <p>Vacuum sample water using hand pump.</p>	<p>⑱</p>  <p>After getting pass sample water to filter, pick up the filter carefully using forceps.</p>
<p>⑲</p>  <p>Put treated membrane filter on pad added medium culture.</p>	<p>⑳</p>  <p>Close immediately after set up filter.</p>	<p>㉑</p>  <p>Set petridish into rack on incubator.</p>	<p>㉒</p>  <p>Select temperature switch to 44 degreeC, and turn on "ON".</p>	<p>㉓ after 24hour</p>  <p>After incubation for 15-24 hours, bring out the filter, then, count the yellow colony.</p>	<p>㉔</p> <p>[CFU/100mL]</p> <p>WHO guideline: Not detected</p> <p>Counted colony number is E.Coli (fecal bacteria) result. Unit show "CFU/100mL"</p>